

REPORT NO.

CD NO.

DATE DISTR. 4 December 1953

NO. OF PAGES 2

50X1

NO. OF ENCLS. 1
(LISTED BELOW)

SUPPLEMENT TO REPORT NO. 50X1

50X1

COUNTRY Czechoslovakia

SUBJECT Stechovice Hydroelectric Power Plant

PLACE
ACQUIRED

DATE
ACQUIRED

DATE OF INFORMATION

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES, WITHIN THE MEANING OF TITLE 18, SECTIONS 793 AND 794, OF THE U.S. CODE, AS AMENDED. ITS TRANSMISSION OR REVELATION OF ITS CONTENTS TO OR RECEIPT BY AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW. THE REPRODUCTION OF THIS FORM IS PROHIBITED.

THIS IS UNEVALUATED INFORMATION

50X1

1. The Stechovice Hydroelectric Power Plant was erected during World War II by the German Government from original German designs. It is situated on the left shore of the Vltava (Moldau) river facing downstream about 15 miles from Prague. The new Czech highway is nearby.
2. The total annual output of the plant is between 250 and 300 million KWH. It is connected with the national grid by two transmission lines with 120,000 V. It is a main source of supply for the city of Prague.
3. The water reservoir is located at a height of 600 feet above the river level and has a storage capacity of one-half million cubic meters. The two water pipelines to the reservoir are each about six feet in diameter. In the case of sabotage the stored water could destroy the plant.
4. The main building is constructed of reinforced concrete and is practically a one-story building, which is usual for hydraulic plants. The main switchgear and distribution station is an outdoor type structural ironwork. The administrative offices and maintenance shops are comparatively very small. [See Enclosure (A) for layout of plant facilities.]
5. The plant is a so-called "pump energy accumulating plant"; there are about three or four plants of this type in entire Europe. About two-thirds of the equipment is of German origin and one-third was produced by Ceskomoravska Kolben-Danek in Prague.
6. There are three normal hydraulic turbine units with a capacity of 20,000 KW each and two 15,000 KW units which are a combination of one pump, one turbine and one electric generator, which can be used as a motor. The reason for this is to elevate the water which cannot be used in the night hours to water reservoirs located about 600 feet above the level of the Vltava river. This accumulated water increases the amount of power generated during the peak load.
7. The two combination pump turbine-generator units are 80-85 feet high which cause some undesirable resonance vibrations and main bearing difficulties. In the future two separate units, a motor-pump and a hydraulic generator-turbine unit, will be made which will reduce the vertical dimensions of the units.

CLASSIFICATION ~~SECRET/SECURITY INFORMATION~~

DISTRIBUTION

ARCHIVAL RECORD
RETURN TO AGENCY ARCHIVES

~~SECRET~~/SECURITY INFORMATION

- 2 -

50X1

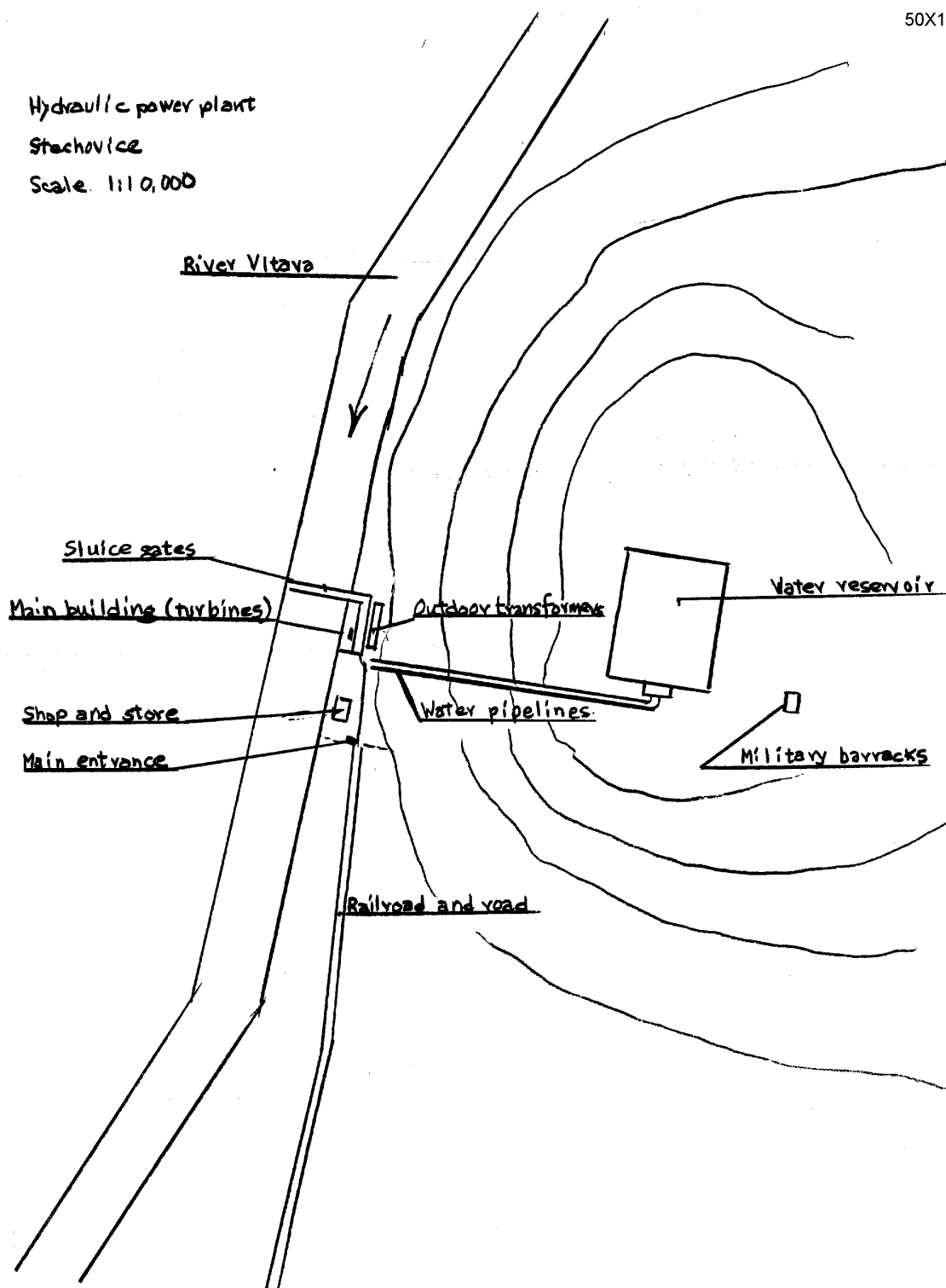
- i. The mechanical condition of the plant equipment is excellent since the first units came into operation during the last year of World War II and were put into use during the 1948 - 1950 period.
2. Total employment of the plants is about 250, which is high because a large part of the electric transmission lines leading from this station are managed and maintained by this power plant. Only personnel who must be present in an emergency are housed at the plant. All other personnel dwell in villages near the plant.
3. The entire surroundings of the reservoir are a "restricted area" and are guarded by militiamen, who have their barracks at the reservoir. The Ministry for Industrial Affairs and the Ministry of Security grant permission to visit the plant itself which is also a "restricted area".

- end -

Enclosure (A): Sketch showing layout of facilities of the Stechovice Hydroelectric Power Plant.

~~SECRET~~/SECURITY INFORMATION

SKETCH SHOWING LAYOUT OF FACILITIES OF THE STECHOVICE HYDROELECTRIC POWER PLANT



SECRET/SECURITY INFORMATION